
Validation of Ordinal Names of Extant Vascular Plants

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ABSTRACT. Thirty-two ordinal names in current use are validly published.

Of the more than 400 ordinal names based on a validly published generic name currently available for extant vascular plants, more than 60 are not validly published in accordance with provisions in the *International Code of Botanical Nomenclature* (Greuter et al., 1988). Although the principle of priority is not mandatory for names above the rank of family (Art. 11.4), all names regardless of rank must be effectively and validly published (Art. 6). Of the some 60 invalid ordinal names, slightly more than half are in current use (Cronquist, 1981, 1988; G. Dahlgren, 1989a, b; Takhtajan, 1985, 1987; Thorne, 1992). These names are validated below by direct reference to a valid description (Art. 32). A catalog of the validly published, automatically typified ordinal names is in preparation and will be presented in the near future.

All names proposed here are based on and automatically typified by the type of the genus of an included family name (Art. 16.1). All proposed new names are currently accepted by Cronquist (1981, 1988), Dahlgren (in G. Dahlgren, 1989a, b), Takhtajan (1986, 1987), or Thorne (1992). Authors adopting these names are noted by the use of C, D, T, or Th respectively.

Actinidiales (J. Hutchinson) Takhtajan ex Reveal, stat. nov. Based on Actinidiaceae J. Hutchison, *Fam. Fl. Pl.* 1: 177. 1926, nom. cons. TYPE: *Actinidia* Lindley (1836). T.

Ancistrocladales (J. E. Planchon ex Walpers) Takhtajan ex Reveal, stat. nov. Based on Ancistrocladaceae J. E. Planchon ex Walpers, *Ann. Bot. Syst.* 2: 175. 1851, nom. cons. TYPE: *Ancistrocladus* Wallich (1829), nom. cons. T.

Aralidiales (Philipson & B. C. Stone) Takhtajan ex Reveal, stat. nov. Based on Aralidiaceae Philipson & B. C. Stone, *Taxon* 29: 402. 1980. TYPE: *Aralidium* Miquil (1856). T.

Austrobaileyales (Croizat) Takhtajan ex Reveal, stat. nov. Based on Dilleniaceae subfam. Austrobaileyoideae Croizat, *J. Arnold Arbor.* 21:

404. 1940. TYPE: *Austrobaileya* C. T. White (1933). T.

Buxales (Dumortier) Takhtajan ex Reveal, stat. nov. Based on Buxaceae Dumortier, *Comment. Bot.* 54. 1822, nom. cons. TYPE: *Buxus* Linnaeus (1753). D, T, TH.

Cercidiphyllales (Engler) H-H. Hu ex Reveal, stat. nov. Based on Cercidiphyllaceae Engler, *Syllabus* ed. 6, 132. 1909, nom. cons. TYPE: *Cercidiphyllum* Siebold & Zuccarini (1846). D, T, TH.

Chloranthales (Blume) Conzatti & L. C. Smith ex Reveal, stat. nov. Based on Chloranthaceae Blume, *Enum. Pl. Javae* 1: 78. 1827, nom. cons. TYPE: *Chloranthus* Swartz (1789). D, T.

Crossosomatales (Engler) Takhtajan ex Reveal, stat. nov. Based on Crossosomataceae Engler in Engler & Prantl, *Nat. Pflanzenfam. Nachtr.* [1:] 185. 1897, nom. cons. TYPE: *Crossosoma* Nuttall (1848). T.

Dioncophyllales (Gilg) Takhtajan ex Reveal, stat. nov. Based on Flacourtiaceae subtrib. Dioncophyllinae Gilg in Engler & Prantl, *Nat. Pflanzenfam.* ed. 2, 21: 390, 420. 1925. TYPE: *Dioncophyllum* Baillon (1890). T.

Eupomatiales (Endlicher) Takhtajan ex Reveal, stat. nov. Based on Eupomatiaceae Endlicher, *Ench. Bot.* 425. 1841, nom. cons. TYPE: *Eupomatia* R. Brown (1814). T.

Eupteleales (K. Wilhelm) H-H. Hu ex Reveal, stat. nov. Based on Eupteleaceae K. Wilhelm, *Samenpfl.* 17. 1910, nom. cons. TYPE: *Euptelea* Zuccarini (1840–1841). C, T.

Fouquieriales (A. P. de Candolle) Takhtajan ex Reveal, stat. nov. Based on Fouquieriaceae A. P. de Candolle, *Prodr.* 3: 349. 1828, nom. cons. TYPE: *Fouquieria* Kunth (1823). D, T, TH.

Geissolomatales (Endlicher) Takhtajan ex Reveal, stat. nov. Based on Geissolomataceae Endlicher, *Ench. Bot.* 214. 1841, nom. cons. TYPE: *Geissoloma* Lindley ex Kunth (1830). D, T.

Glaucidiales (Tamura) Takhtajan ex Reveal, stat. nov. Based on Glaucidiaceae Tamura, *Bot. Mag. (Tokyo)* 85: 40. 1972. TYPE: *Glaucidium* Siebold & Zuccarini (1846). T.

- Gunnerales** (Meisner) Takhtajan ex Reveal, stat. nov. Based on Gunneraceae Meisner, Pl. Vasc. Gen.: Tab. Diagn. 345, 346, Comm. 257. 1841, nom. cons. TYPE: *Gunnera* Linnaeus (1767). D, T.
- Hanguanales** (Airy Shaw) R. Dahlgren ex Reveal, stat. nov. Based on Hanguanaceae Airy Shaw, Kew Bull. 18: 260. 1965. TYPE: *Hanguana* Blume (1827). D.
- Hydnorales** (C. A. Agardh) Takhtajan ex Reveal, stat. nov. Based on Hydnoraceae C. A. Agardh, Aphor. Bot. 88. 1821, nom. cons. TYPE: *Hydnora* Thunberg (1775). T.
- Hydrostachyales** (Engler) Diels ex Reveal, stat. nov. Based on Hydrostachyaceae Engler, Sylabus ed. 2, 125. 1898, nom. cons. TYPE: *Hydrostachys* Du Petit-Thouars (1806). D, T.
- Lactoridales** (Engler) Takhtajan ex Reveal, stat. nov. Based on Lactoridaceae Engler in Engler & Prantl, Nat. Pflanzenfam. III, 2: 19. 1888, nom. cons. TYPE: *Lactoris* R. A. Philippi (1865). D, T.
- Melanthiales** (Batsch) R. Dahlgren ex Reveal, stat. nov. Based on Melanthiaceae Batsch, Tab. Affin. Regni Veg. 133. 1802, nom. cons. TYPE: *Melanthium* Linnaeus (1753). D.
- Ochnales** (A. P. de Candolle) J. Hutchinson ex Reveal, stat. nov. Based on Ochnaceae A. P. de Candolle, Ann. Mus. Natl. Hist. Nat. 17: 410. 1811, nom. cons. TYPE: *Ochna* Linnaeus (1753). T.
- Paracryphiales** (Airy Shaw) Takhtajan ex Reveal, stat. nov. Based on Paracryphiaceae Airy Shaw, Kew Bull. 18: 265. 1965. TYPE: *Paracryphia* E. G. Baker (1921). T.
- Podocarpales** (Endlicher) Pulle ex Reveal, stat. nov. Based on Podocarpaceae Endlicher, Syn. Conif. 203. 1847, nom. cons. TYPE: *Podocarpus* L'Heritier ex Persoon (1807), nom. cons. T.
- Rhoipteleales** (Handel-Mazzetti) Novák ex Reveal, stat. nov. Based on Rhoipteleaceae Handel-Mazzetti, Repert. Spec. Nov. Regni Veg. 30: 75. 1932, nom. cons. TYPE: *Rhoiptelea* Diels & Handel-Mazzetti (1932). T.
- Salvadorales** (Lindley) R. Dahlgren ex Reveal, stat. nov. Based on Salvadoraceae Lindley, Nat. Syst. Bot. ed. 2, 269. 1836, nom. cons. TYPE: *Salvadora* Linnaeus (1753). D.
- Simmondsiales** (Müller Argoviensis) Reveal, stat. nov. Based on Buxaceae trib. Simmondsieae Müller Argoviensis in A. P. de Candolle, Prodr. 16(1): 9, 22. 1869. TYPE: *Simmondsia* Nuttall (1844). T.
- Stylidiales** (R. Brown) Takhtajan ex Reveal, stat. nov. Based on Stylidiaceae R. Brown, Prodr. 565. 1810, nom. cons. TYPE: *Stylidium* Swartz ex Willdenow (1805), nom. cons. D, T.
- Toricelliales** (Wangerin) Takhtajan ex Reveal, stat. nov. Based on Cornaceae trib. Toricellieae Wangerin in Engler, Pflanzenr. IV, 229(Heft 41): 18, 31. 1910. TYPE: *Toricellia* A. P. de Candolle (1830). T.
- Tropaeolales** (A. L. de Jussieu ex A. P. de Candolle) Takhtajan ex Reveal, stat. nov. Based on Tropaeolaceae A. L. de Jussieu ex A. P. de Candolle, Prodr. 1: 683. 1824, nom. cons. TYPE: *Tropaeolum* Linnaeus (1753). D, T.
- Velloziales** (Endlicher) R. Dahlgren ex Reveal, stat. nov. Based on Velloziaceae Endlicher, Ench. Bot. 101. 1841, nom. cons. TYPE: *Vellozia* Vandelli (1788). D, T.
- Welwitschiales** (Markgraf) Pulle ex Reveal, stat. nov. Based on Welwitschiaceae Markgraf in Engler & Prantl, Nat. Pflanzenfam. ed. 2, 13: 419. 1926, nom. cons. TYPE: *Welwitschia* J. D. Hooker (1862), nom. cons. T.
- Winterales** (R. Brown ex Lindley) A. C. Smith ex Reveal, stat. nov. Based on Winteraceae R. Brown ex Lindley, Intr. Nat. Syst. Bot. 26: 1830, nom. cons. TYPE: *Winteria* J. A. Murray (1784), nom. illeg. \equiv *Drimys* J. R. & G. Forster (1775). D, T.

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